

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-11 (Canceled).

Claim 12 (New): A system for assembly between a first sheet of glass including a countersunk hole on each of its sides and a second sheet of glass also including a countersunk hole on each of its sides, each countersunk hole configured respectively to take first and second connecting pieces made of two elements making it possible, by clamping the elements, to introduce a preload into the countersunk hole, each of the first and second connecting pieces being provided with a bore, the system comprising:

a connecting core connecting with the first and second connecting pieces, wherein the connecting core comprises first and second parts, wherein the first part mates with the surface of the bore of the first connecting piece on which it exerts a force roughly parallel to an axis of the hole and the second part fits into the bore made in the second connecting piece therein to react to the force.

Claim 13 (New): The assembly system as claimed in claim 12, wherein the bore of the first connecting piece is conical and is configured to accommodate the first part of the connecting core.

Claim 14 (New): The assembly system as claimed in claim 12, wherein the conical surface of the first part of the connecting core has a cone angle roughly similar to that of the cone of the bore of the first connecting piece.

Claim 15 (New): The assembly system as claimed in claim 12, wherein the bore of the second connecting piece is roughly cylindrical and is configured to accommodate the second part of the connecting core.

Claim 16 (New): The assembly system as claimed in claim 12, wherein the second part of the connecting core comprises at least a first and a second ring that are eccentric and nested one inside the other.

Claim 17 (New): The assembly system as claimed in claim 16, wherein each of the first and second rings is split.

Claim 18 (New): The assembly system as claimed in claim 16, wherein an inner bore of the first ring is conical.

Claim 19 (New): The assembly system as claimed in claim 16, wherein an outer bore of the first ring has a step configured to be housed in a bore thus retaining the glass should the glass break.

Claim 20 (New): A sheet of glass at least 6 mm thick, having at least one doubly countersunk hole with a conical part opening onto each side of each of the faces of the sheet of glass and a cylindrical central part that has roughly a same axis as the conical parts, comprising:

inside each countersunk hole, a connecting piece, the connecting piece configured to join together to allow mounting with the assembly system as claimed in claim 15.

Claim 21 (New): The sheet of glass as claimed in claim 20, wherein at least one of connecting piece or the connecting core are equipped with holding means for transmitting loads directed roughly in the plane of the sheets of glass either to a structural element or to another sheet of glass.

Claim 22 (New): The application of the sheet as claimed in claim 20 to production of entities formed of prefabricated elements assembled on site.